We claim:

 A process for the purification of silicone oil or fluid for use as an ocular tamponade comprising:

performing a supercritical carbon dioxide extraction of said silicone oil or fluid to remove cyclic and oligomeric impurities.

2. A process for the purification of silicone oil or fluid for use as an ocular tamponade comprising:

performing a supercritical carbon dioxide mixture extraction of said silicone oil or fluid to remove cyclic and oligomeric impurities.

- 3. The process of claim 1 wherein said extraction is conducted at a pressure of approximately 3000 psi, a temperature of approximately 55 degrees
 Celsius and a carbon dioxide flow rate of approximately 52 gm/minute.
- 4. The process of claim 2 wherein said extraction is conducted at a pressure of approximately 3000 psi, a temperature of approximately 55 degrees Celsius and a carbon dioxide mixture flow rate of approximately 52 gm/minute.
- The process of claim 1 wherein said extraction is conducted at a carbon dioxide flow rate of approximately 20 to 26 gm/minute and a flow time of approximately 90 minutes.

- 6. The process of claim 2 wherein said extraction is conducted at a carbon dioxide mixture flow rate of approximately 20 to 26 gm/minute and a flow time of approximately 90 minutes.
- 7. The process of claim 2 wherein said carbon dioxide mixture comprises approximately 90 percent carbon dioxide and approximately 10 percent acetone.
- 8. The process of claim 2 wherein said carbon dioxide mixture comprises carbon dioxide and a modifier.
- 9. The process of claim 2 wherein said carbon dioxide mixture comprises carbon dioxide and acetone or acetonitrile.
- 10. The process of claim 2 wherein said carbon dioxide mixture comprises carbon dioxide and methanol.
- 11. The process of claim 2 wherein said carbon dioxide mixture comprises carbon dioxide and isopropanol.
- 12. The process of claim 2 wherein said carbon dioxide mixture comprises approximately 90 percent carbon dioxide and approximately 10 percent methanol.

- 13. The process of claim 2 wherein said carbon dioxide mixture comprises approximately 90 percent carbon dioxide and approximately 10 percent isopropanol.
- 14. A silixone oil or fluid ophthalmic tamponade produced using the process of claim 1 or 2.
- 15. A method of using the silicone oil or fluid ophthalmic tamponade of claim14 in an ophthalmic surgical procedure comprising:

creating an incision into a posterior chamber of an eye;
positioning damaged retinal tissue within the eye; and
filling said posterior chamber of the eye with said silicone oil.

16. A method of using the silicone oil ophthalmic tamponade of claim 14 in an ophthalmic surgical procedure comprising:

creating an incision into a posterior chamber of an eye; and filling said posterior chamber of the eye with said silicone oil or fluid.